CLAIMS

1. Supply generator for an oscillatory circuit comprising an inductor (L) and a resonant capacitor (C_3, C_4) adapted to operate at a fixed frequency and comprising at least one pair of transistors (I_1, I_2) controlled at a variable duty cycle (δ) to modify the power, characterized in that it comprises a first diode (D_5) between a first transistor (I_2) of said pair and the supply of said generator and a second diode (D_4) between the connection point of the inductor (L) and the resonant capacitor (C_3, C_4) and the connection point of said first transistor (I_2) and said first diode (D_5).

2. Generator according to claim 1, characterized in that said transistors (I_1, I_2) are associated with diodes (D_1, D_2) and capacitors (C_1, C_2) adapted to operate said generator in a soft switching mode.

3. Generator according to claim 2, characterized in that it is adapted to switch at the zero crossing of the voltage.

4. Generator according to any one of claims 1 to 3, characterized in that it comprises a third diode (D_6) between a second transistor (I_1) of said pair and the supply of said generator and a fourth diode (D_3) between the connection point of the inductor (L) and the resonant capacitor (C_3, C_4) and the connection point of said second transistor (I_1) and said third diode (D_6).

5. Set of supply generators according to any one of claims 1 to 4, characterized in that said generators are synchronized in frequency and controlled at different duty cycles (δ_1, δ_2, ... δ_n).

6. Induction cooking hob comprising a plurality of inductors adapted to constitute one or more cooking rings, characterized in that said inductors are associated with respective supply generators according to any one of claims 1 to 4, said generators being synchronized in frequency and

adapted to be controlled independently of each other with a variable duty cycle.